

**PROCESS AND APPARATUS FOR CHARACTERIZING  
INTELLECTUAL PROPERTY FOR INTEGRATION INTO  
AN IC PLATFORM ENVIRONMENT**

ABSTRACT OF THE DISCLOSURE

5           A footprint based optimal characterization  
of intellectual property (IP) for more deterministic  
physical integration. The physical integration  
characteristics are based upon IP physical  
integration at an anchor point in a pre-defined IC  
10 platform. IP footprint characteristics are  
identified as fixed, variable or prioritized to each  
other, and bounding constraints are defined based on  
a set of characteristics for the IP, the platform  
characteristics and IC design requirements. The IP  
15 is physically synthesized using the bounding  
constraints. The synthesized IP is tested and the  
bounding constraints are iteratively modified until  
the characteristics of the synthesized IP are  
optimized/captured.

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